

Cookbook of PEP for Driver Education

MT CURRICULUM GUIDE

M 4

Objective: Investigate turning radius of different vehicles

INGREDIENTS

Owner's Manuals
Web Pages
Older vehicle
Newer vehicle

INSTRUCTIONS

Take the students to the parking lot to evaluate two vehicles with different turning ratios, or
Report on their findings from web pages, etc.

Part 1 Start the students with an older vehicle

- With the wheels straight, count the number of turns until wheels lock to right.
- Repeat going to the left
- Total the number of turns from lock to lock
- Repeat above steps on newer vehicle
- What are the differences?

Part 2 Use the owner's manual and/or web pages of auto makers to compare the turning radii of various sized of vehicles.

- Compare sub-compact mid-size, and SUV or truck
- How large is the turning radius?
- What causes the differences?
Why is this important to know?

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Objective: Practice Steering Control While Turning

INGREDIENTS

Simulated steering wheel for each student
(pizza wheel, paper plate, etc.)

INSTRUCTIONS

Give each student a simulated steering wheel

Have the students place hands at 9 and 3

On command, have the students demonstrate proper hand positioning for

HAND-OVER-HAND

Pull the steering wheel down with one hand while your other hand crosses over to pull the wheel farther down

Left turn example:

- Begin the turn with a balanced hand position
- Start pulling down to the left with your left hand
- Your right hand pushes the wheel toward the left about ¼ turn
- Release your left hand from the wheel and cross it over your right hand to grasp the wheel near the top. Continue pulling down

PUSH-PULL

This method allows you to keep both hands on the wheel at all times.

- One hand grasps the steering wheel near the 4 or 8 o'clock position.
- That hand pushes the wheel up to near the 12 o'clock position.
- At the same time, the other hand slides up to the 11 or 1 o'clock position and pulls down.
- As the pulling hand comes down, the pushing hand returns to the original position to continue the procedure.

Practice

Describe a speed and maneuver as the students practice turning.